

ABSTRACT OF THE DISCLOSURE

The invention concerns a rotating electrical machine comprising an outer shell, a stator, a rotor, and a fan with blades arranged on one first axial side of the rotor, the shell having on its outer periphery radial ports consisting of each of an opening subdivided by fins each elongated according to a particular profile of its own, at least one fin of at least one of the radial ports is inclined such that the edges of the blades facing said port sweep gradually across the fin according to its profile while rotating about the rotary shaft, in a shearing movement whereby each time only one substantially point-shaped portion of the edge of the blade is opposite the fin.